

National Registry of Genetically Triggered Thoracic Aortic Aneurysms and Cardiovascular Conditions (GenTAC)

August 2013

GenTAC Clinical Center Highlight: University of Texas Medical School at Houston



In this issue we highlight the University of Texas Medical School at Houston (UT Health), where Dianna Milewicz MD, PhD is the Principal Investigator. Dr. Milewicz is professor and director of the Division of Medical Genetics in the Department of Internal Medicine at UT Health and serves as the principal investigator for the UT Health and Texas Children's Hospital. She is director of the MD/PhD Program, a joint program between UT and the M.D. Anderson Cancer Center, as well as Director of the John

Ritter Research Program in Aortic and Vascular Diseases with the University of Texas Health Science Center. Her co-Investigator for GenTAC is Dr. Siddharth Prakash, MD, PhD, F.A.C.C., F.A.H.A. He is Assistant Professor in the Department of Internal Medicine. The GenTAC study coordinator is Meghan Terry who has worked in research for 8 years, including in pharmaceutical trials, before joining the GenTAC team.

GenTAC Steering Committee Meeting, Rockville MD







Recent Highlights

- On April 15, 2013, GenTAC held its annual Steering
 Committee meeting in Rockville MD. Several guest
 speakers presented their research including Alan Braverman (Washington University) and his findings on in Women
 with Aortopathy, and Sherene Shalhub (University of Texas,
 Houston) and her research on Ehlers Danlos. We also had the
 opportunity to recognize Carolyn Bondy for her lifetime contributions to improve the lives of patients with Turner syndrome.
- Videocasts of the GenTAC investigators discussing the research they have done using the GenTAC Registry are available on the GenTAC website. Currently you can see Drs. H. Eser Tolunay and Patrice Desvigne-Nickens, introduce and discuss the origins of the Registry. Click here to view. Check back regularly as new videocasts will be posted to the site.

GenTAC will be at AHA!

Please join us Tuesday, November 19 from 7:30-8:45am for this Scientific Session on *Epidemiology and Genetics of Adult Congenital Heart Disease: Insights from GenTAC*, the National Registry of Genetically Trig gered Aneurysms and Other Cardiovascular Conditions. *Moderators: Kim A Eagle, Ann Arbor, MI; Cheryl L Maslen, Portland, OR*

Presentations:

Tuesday, Nov 19, 2013, 7:30 AM - 7:45 AM

SNPs and rare copy number variants are associated with bicuspid aortic valve in Turner syndrome.

Siddharth Prakash, Houston, TX

Tuesday, Nov 19, 2013, 7:45 AM - 8:00 AM

Calcium Channel Blockers Impose a Deleterious Gene-by-Environment Interaction in Marfan Syndrome: Implications for Aortic Disease Pathogenesis and Treatmen

Jefferson J Doyle, Baltimore, MD

Tuesday, Nov 19, 2013, 8:00 AM - 8:15 AM

Utilization and outcomes of valve sparing aortic root replacement in patients with Marfan syndrome enrolled in GenTAC

Howard Song, Portland, OR

Tuesday, Nov 19, 2013, 8:15 AM - 8:30 AM

Gender differences among individuals with genetically-triggered thoracic aortic aneurysms and dissections

Kathryn W Holmes, Portland, OR

Tuesday, Nov 19, 2013, 8:30 AM - 8:45 AM

A unified protocol for analysis of the aorta results in high reproducibility of measurements across imaging modalities: the GenTAC iCORE experience

Federico M Asch, Washington, DC

Steering Committee Members

Principal Investigators			
Scott A. LeMaire, MD	Baylor College of Medicine		
William Ravekes, MD	Johns Hopkins University School of Medicine		
Nazli B. McDonnell, MD, PhD	NIA at Harbor Hospital		
Cheryl L. Maslen, PhD	Oregon Health & Science University		
Ralph V. Shohet, MD	Queen's Medical Center		
Reed E. Pyeritz, MD, PhD	University of Pennsylvania School of Medicine		
Dianna M. Milewicz, MD, PhD	University of Texas Medical School at Houston		
Richard B. Devereux, MD	Weill Cornell Medical College of Cornell University		
Core Labs			
Jennifer P. Habashi, MD	Johns Hopkins University Hospital		
Federico M. Asch, MD	MedStar Research Institute		
Data Coordinating Center			
Barbara L. Kroner, PhD	RTI International		
NHLBI			
Eser H. Tolunay, PhD	National Heart, Lung, and Blood Institute		
SC Chair			
Kim A. Eagle, MD	University of Michigan		

Do you have a research interest in genetically triggered thoracic aortic conditions?

GenTAC makes its collection of medical data and biologic samples available at no cost to qualified investigators. Your work can help determine best practices that advance the clinical management of genetic aortic aneurysms and other cardiovascular conditions.

A Snapshot of Who is Enrolled in GenTAC

nber of people enrolled:	3546	Eligible Diagnosis ————	
specimens ————		Marfan:	870
od:	2023	Turner:	260
va:	1223	Ehlers-Danlos (vascular):	141
n blood and saliva	85	Ehlers-Danlos (other):	21
sue:	141	Loeys-Dietz:	99
ndor		FBN1, TGFBR mutation:	37
	2110	BAV with aortic enlargement:	883
		BAV with family history:	25
iaic.	1412	BAV with coarctation:	78
		Shprintzen-Goldberg:	5
To submit a proposal to use GenTAC data or for more information, visit our website: http://gentac.rti.org.		C Familial TAA:	267
		Other aneurysm, dissections:	717
		Other congenital heart disease:	94
	specimens od: va: h blood and saliva sue: nder e: nale: To submit a proposal to us data or for more informati	specimens od: 2023 va: 1223 h blood and saliva 85 sue: 141 nder e: 2110 nale: 1412 To submit a proposal to use GenTA data or for more information, visit	Marfan: Turner: bd: 2023 Turner: the blood and saliva 85 sue: 141 e: 2110 hale: 2110 hale: 1412 To submit a proposal to use GenTAC data or for more information, visit Marfan: Turner: Ehlers-Danlos (vascular): Ehlers-Danlos (other): Loeys-Dietz: FBN1, TGFBR mutation: BAV with aortic enlargement: BAV with family history: Shprintzen-Goldberg: Familial TAA: Other aneurysm, dissections:



Presented Abstracts

- Shalhub, Sherene. COL3A1 gene mutation predicts arterial involvement and prognosis in Vascular Ehlers Danlos Syndrome. Plenary Session. Society for Vascular Surgery, May 30 – June 1 2013
- Asch, Federico. Are unicuspid and bicuspid aortic valve different phenotypes of the same disease? An insight from the GenTAC registry. American Society of Echocardiography, June 29—July 2, 2013
- Asch, Federico. A unified protocol for analysis of the aorta results in high reproducibility of measurements across imaging modalities. The GenTAC registry.
 American Society of Echocardiography, June 29-July 2, 2013

Save the date

GenTAC is hosting the Third GenTAC Thoracic Aortic Disease Summit in Baltimore, MD on July 9-10, 2014. It dovetails with the annual NMF meeting which is being held **July 10 – 13**, 2014. Information about the meeting will be on the GenTAC website as it becomes available.

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2866
180
276
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